

Appl. No. 10/730,042
Amendment Dated January 3, 2006
Reply to Office Action of November 16, 2005

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing Of Claims:

Claim 1 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container, which cargo is subject to shifting forces during transport, said load restraining strip comprising:

a first, cross-weave layer of reinforcement material having a first side and a second side and being composed of,

substantially parallel longitudinal strands extending along the length of said restraining strip, and

crossing strands interwoven with said substantially parallel longitudinal strands to produce said cross-weave layer of reinforcement material;

a first adhesive layer having a first side and a second side and coextensively extending along, coating and bonding to said second side of said cross-weave material;

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a second, parallel strand layer of reinforcement material having a first side and a second side, wherein said second side of said first adhesive layer is bonded to said first side of said second, parallel strand layer of reinforcement material;

a second layer of adhesive having a first side and a second side and at least partially extending along and coating a portion of said second side of said second strand layer of reinforcement material; and

a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 2 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein said first, cross-weave layer of reinforcement material is formed such that:

spacing between next adjacent ones of said crossing strands of said cross-weave layer of reinforcement material is approximately twice as great as spacing

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between next adjacent strands of ones of said substantially parallel longitudinal strands.

Claim 3 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein said first, cross-weave layer of reinforcement material further comprises:

a pliant coating applied to an outer surface of said cross-weave material.

Claim 4 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 3 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 5 (original): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

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Claim 6 (original): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 1 wherein:

said substantially parallel longitudinal strands of said cross-weave layer comprises a plurality of finer denier fibers of reinforcement material.

Claim 7 (currently amended): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 wherein:

said strands of said second, parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 8 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polyester.

Claim 9 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of:

polypropylene.

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Claim 10 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

polyethylene.

Claim 11 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

polyolefin.

Claim 12 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

glass fiber.

Claim 13 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

an aramid.

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Claim 14 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

carbon fibers.

Claim 15 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

polyamide fibers with amide groups separated by para-phenylene groups.

Claim 16 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 6 or 7, wherein said finer denier fibers are composed of :

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

Claim 17 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 1, wherein said second layer of adhesive includes:

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a substrate material having a first side and a second side;

a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 18 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 17, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 19 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 17, wherein:

said first course of adhesive of said second layer of adhesive is thicker than said second course of adhesive.

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Claims 20 – 22 (canceled)

Claim 23 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container, which cargo is subject to shifting forces during transport, said load restraining strip comprising:

a first, cross-weave layer of reinforcement material having a first side and a second side and being composed of,

substantially parallel longitudinal strands extending along the length of said restraining strip, and

transverse crossing strands interwoven with said substantially parallel longitudinal strands to produce said cross-weave layer of reinforcement material;

a first adhesive layer having a first side and a second side and said first side of said first layer of adhesive coextensively extending along, coating and bonding to said second side of said cross-weave material;

a second, parallel strand layer of reinforcement material having a first side and a second side, wherein said second side of said first adhesive layer is bonded to said first side of said second, parallel strand layer of reinforcement material;

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a second layer of adhesive having a first side and a second side and at least partially extending along and coating a portion of said second side of said second strand layer of reinforcement material; and

a release paper extending coextensively with and releasably adhered to the second side of said second layer of adhesive, wherein said release paper may be removed from said second layer of adhesive on site and said load restraining strip releasably affixed to an interior surface of a cargo transport container such that said load restraining strip may be used as a flexible securement element to secure cargo within a transport container.

Claim 24 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein said first, cross-weave layer of reinforcement material is formed such that:

spacing between next adjacent ones of said transverse crossing strands of said cross-weave layer of reinforcement material is approximately twice as great as spacing between next adjacent strands of ones of said substantially parallel longitudinal strands.

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Claim 25 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein said first, cross-weave layer of reinforcement material further comprises:

a pliant clear coating applied to an outer surface of said cross-weave material.

Claim 26 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 25 wherein said pliant coating comprises:

a layer of biaxially-oriented polyethylene terephthalate polyester film.

Claim 27 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein said first adhesive layer includes:

a spun bonded polyester substrate located generally centrally within said first adhesive layer.

Claim 28 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 23 wherein:

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said substantially parallel longitudinal strands of said cross-weave layer comprises a plurality of finer denier fibers of reinforcement material.

Claim 29 (currently amended): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 28 wherein:

said strands of said second, parallel strand layer of reinforcement material comprise a plurality of finer denier fibers of reinforcing material.

Claim 30 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 28 or 29, wherein said finer denier fibers are composed of:

a combination of at least two different fibers selected from the group consisting of a polyester, polypropylene, polyethylene, polyolefin, glass fiber, aramid, carbon fiber and polyamide fibers with amide groups separated by para-phenylene groups.

Claim 31 (previously presented): A load restraining strip for use in securing cargo within a transport container as defined in claim 23, wherein said second layer of adhesive includes:

a substrate material having a first side and a second side;

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a first course of adhesive covering said first side of said substrate material and adhered to said second side of said second, parallel strand layer of reinforcement material; and

a second course of adhesive covering said second side of said substrate material and being operable for adhering contact with an interior surface of a cargo transport container.

Claim 32 (currently amended): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim [[39]] 31, wherein said substrate material comprises:

a strip of biaxially-oriented polyethylene terephthalate polyester film material.

Claim 33 (previously presented): A cross-weave load restraining strip for use in securing cargo within a transport container as defined in claim 31, wherein:

said first course of adhesive of said second layer of adhesive is thicker than said second course of adhesive.

Claims 34-68 (canceled)